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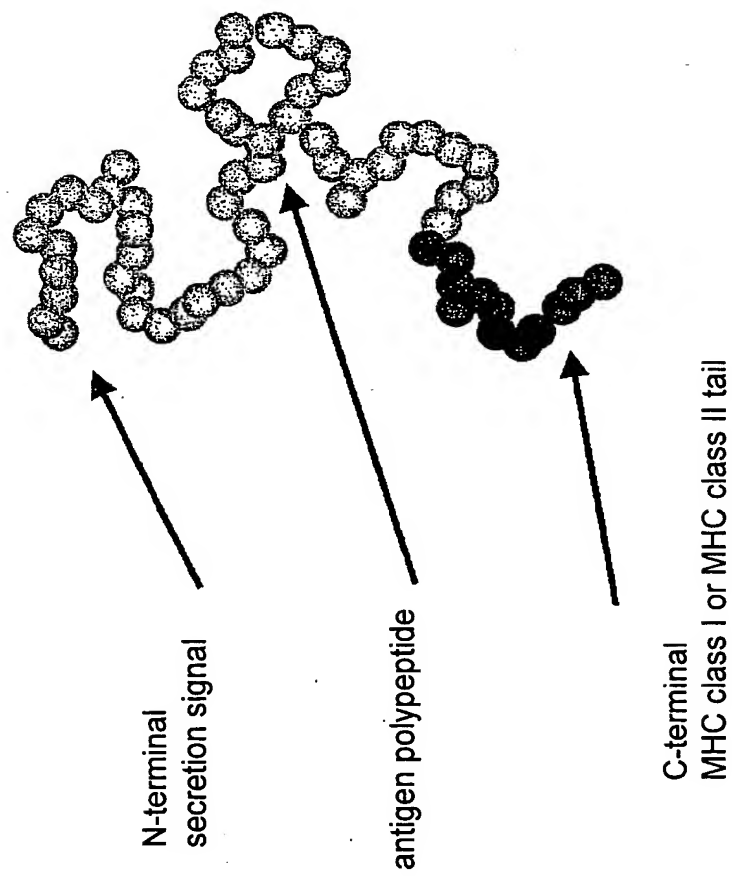
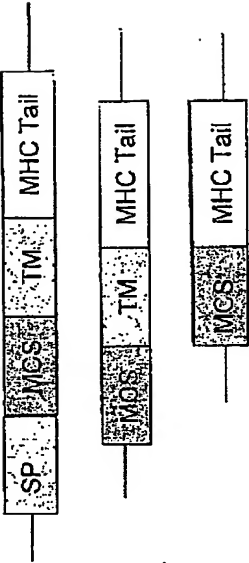


Fig. 1

Fig. 2

cassettes containing cloning sites (MCS) for expression of MHC fusion proteins of the invention



cassettes containing antigens cloned therein for expression of MHC fusion proteins of the invention

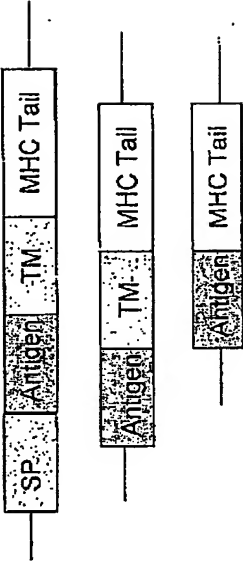


Fig. 3

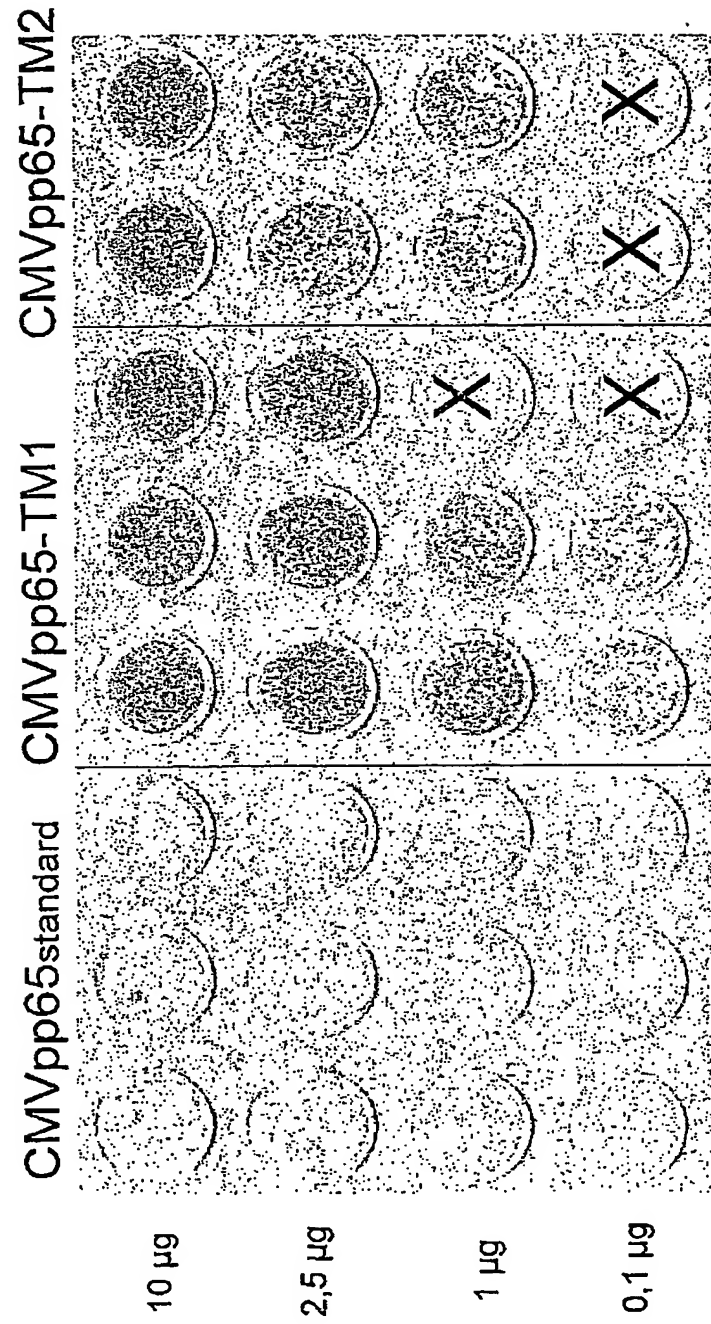
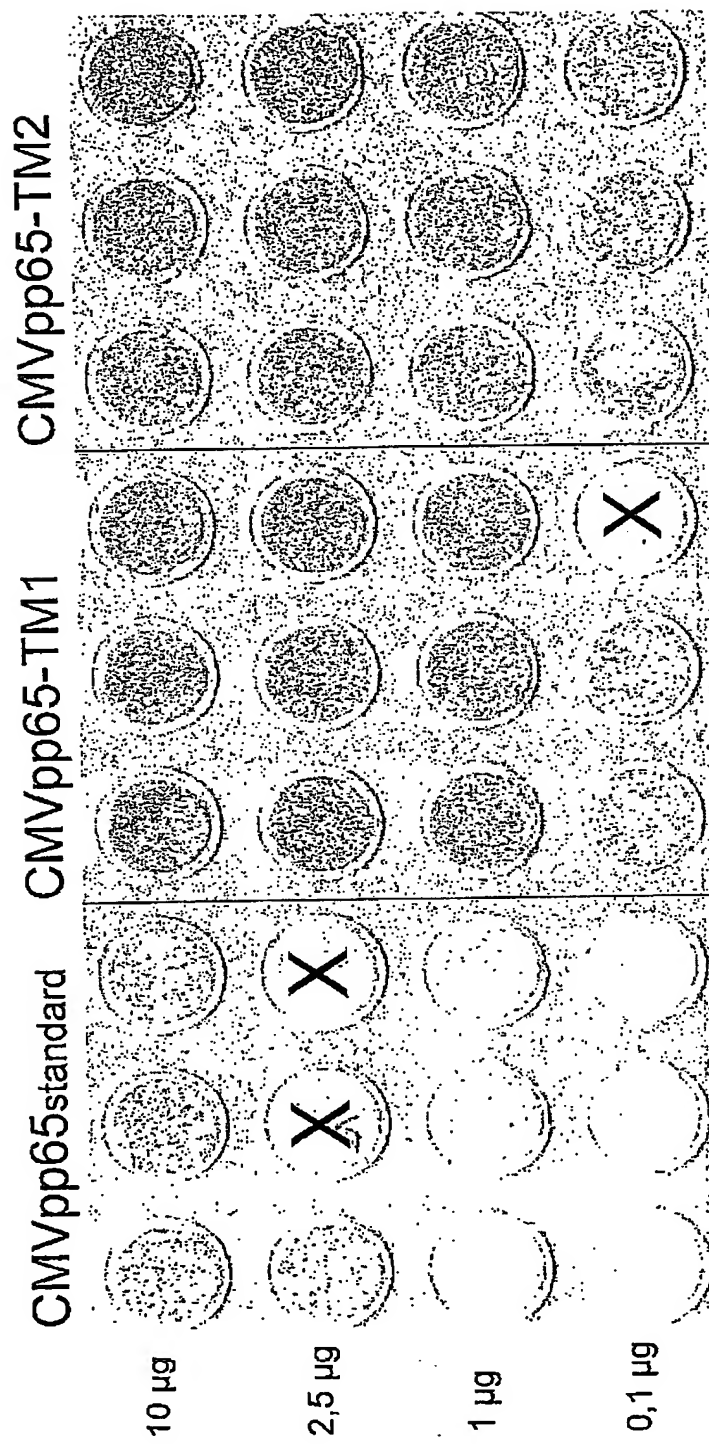


Fig. 4



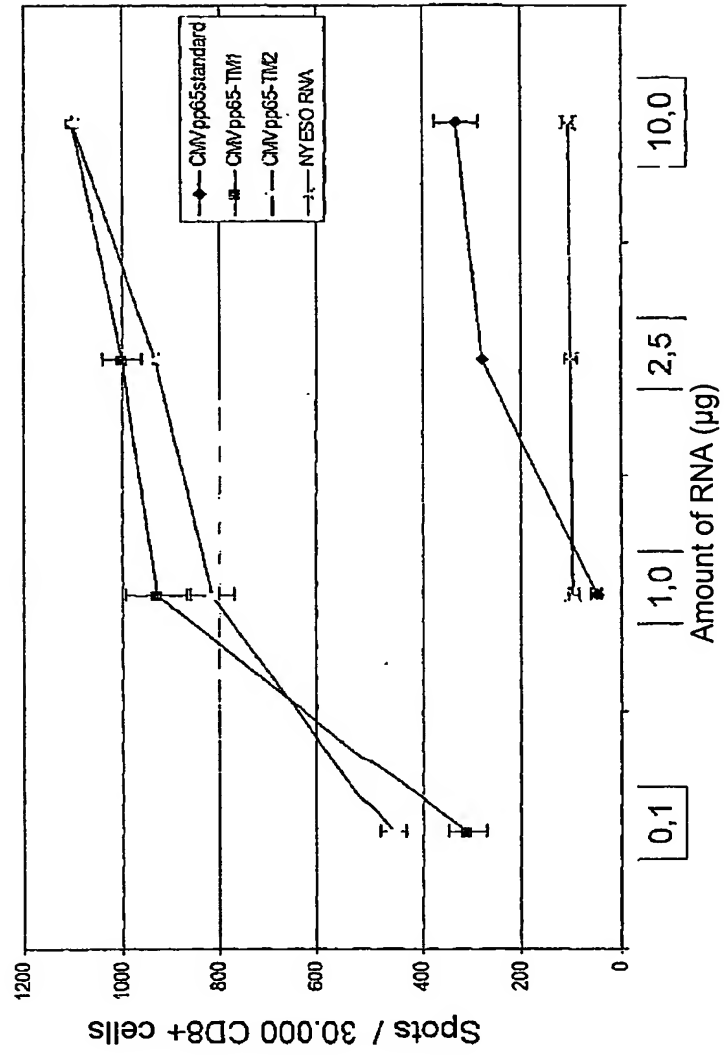


Fig. 5

Fig. 6

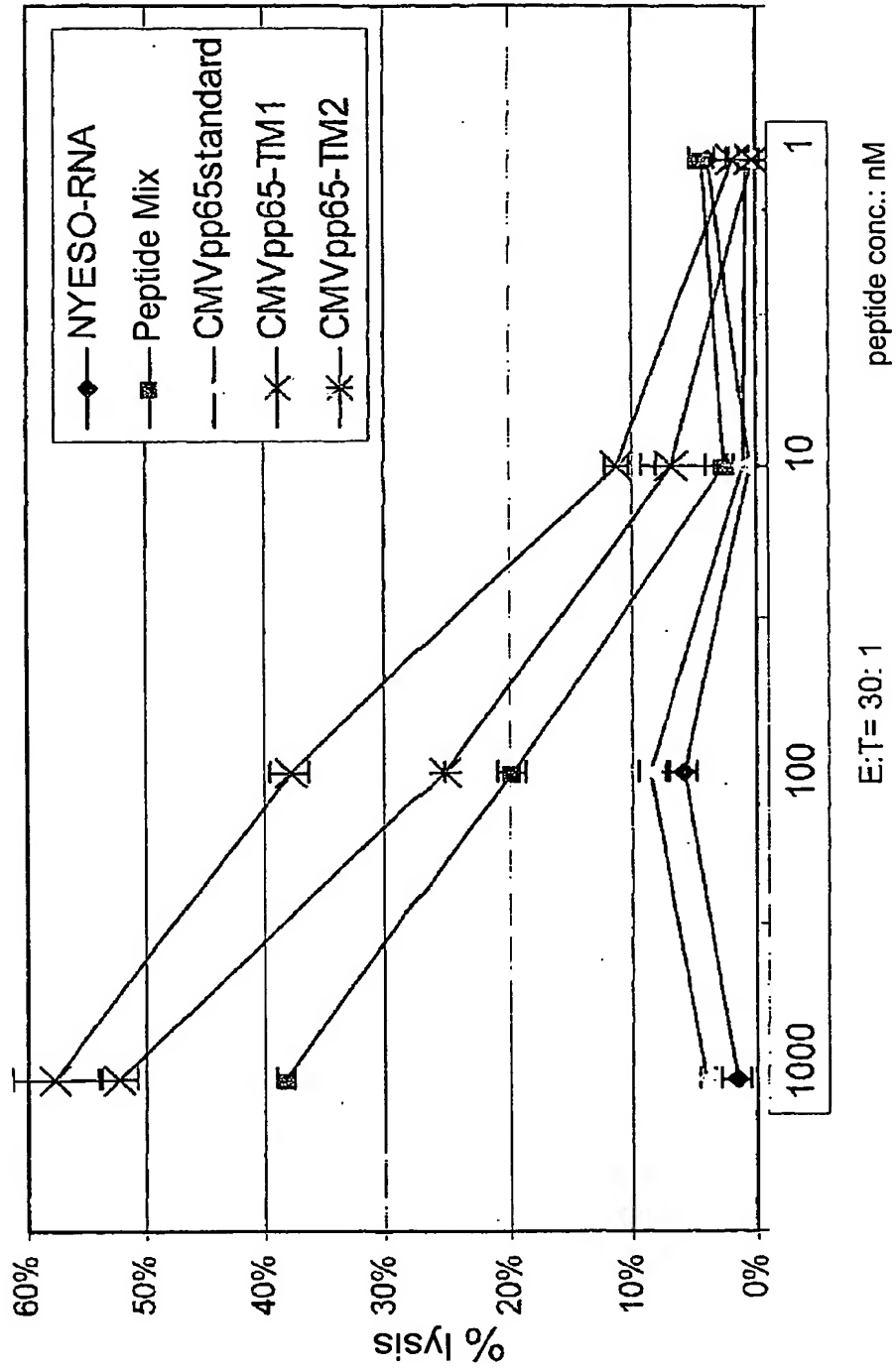
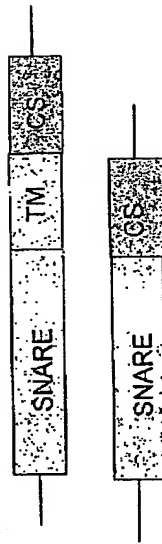


Fig. 7

cassettes containing cloning sites (CS) for expression of SNARE fusion proteins of the invention



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cassettes containing antigens cloned therein for expression of SNARE fusion proteins of the invention

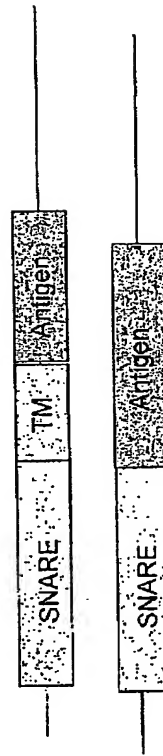


Fig. 8

[illegible]

[illegible]

[illegible]

64	ZPAME variant 1	<p>CUNENTATRMQVIGDQVVKVYLESCFEDVBSGKLEHVIILGSDVEEDLTATRNPOPFMR PHERNGFTVLCPKNMIIKPKISIMLDVAFSTHEHFLGCPKSIPLGISLGNLLMNGQX I FLEVOALRETVELROYDVAALFFEDIDLLQNGPYSEHPTFTSQYRIQKGKLEFVHTW DRHDEGAAGQDDVWTSGSDSDEELVTERKTFRVTCGGANAGASTSAGRRKRSASATA CTSGVNRGRKKAESTVAPEEDTDESDNEIHNPVETWPEWQACILANLNVEMVATVQG QNLKYQEFFDANDIYRIFAELGQVWQAAQPKRRRIURQDALFGFCIASTTKKRRGGSQS KMLSGVGGFVLGLLELIGAGLFIYFRNQKHSGLQPRGELS</p> <p>1 atggaacgaa ggcgtttgtg gggttccatt cagagccgal acatcagcat gagtgtgtgg 61 acangccccc ggaagactgt ggaactggca gggcagaqcc agtgaagga tgaagccctg 121 gccattggccg cccgtggagt gctgcccagg gactctctcc ggcactctt catggcagcc 181 ttgacggga gacacagcca gacctgagg gcaatggtgc aggcctggcc ctccacctgc 241 utccctctgg gagtgtgat gaaggacaa catcttcacc tggagacatt caaagctgtg 301 ctgtatggac ttgatgtgt ccttgcccgg ggggttggcc cuaggaggtg gaaacttcaa 361 gtgttgatt tacggaagaa ctctcaluag gactttctga ctgtatggtc tggaaacagg 421 gucagtcgt actcaattcc agagccagaa ggaactcagg ccatgacaaa gaagcgaaaa 481 gtataggtt tgaacacaga ggcagagcag cctttcalle cagttagagt gctcgtagac 541 ctgttctcca aggaaggtgc ctgtgatgaa ttgttctctt acctaatga gaaagtgaag 601 cgaagaaaa atgtactacg cctgtgtgtt aggaagctga agatttttgc aatggccatg 661 caggatataa agatgatcct gaaaatggtg cagctggact ctattgaaga ttgtgaagtg 721 acttctacct ggaagctacc caccttgccg aaattttctt cttaacctgg ccagatgatt 781 aatctgcgta gactctctct ctccacatc catgacatctt cclacatttc ccogggaag 841 gaagagcagt atatgcucca gttaacctt cagttctca qctgtcagt cctgcaggct 901 ctctatgttg accttttatt ttctctaga ggcgccttgg atcagtgtct caggecauty 961 atgaacccct tggaaaccc ctcaataact aactgcgggg ttccggaaag ggaatgtatg 1021 catctylccc agatccccc cgtcagtcag ctaagtctcc tgagtctaa ggtgtgtcatg 1081 ctgaccgatg taaglcocga gccctccaa gctctgttgg agagagcctc tgcacacctc 1141 caggacctgg tctttatga gtgtggatc acgatgac agctccttc cctcctgctt 1201 tccctggcc actgtccca gcttaaac ttactctct acgggacttc catctccata 1261 tctgcttgc agagtctct gcagacatc atgggctga gcaatutga ccacgtgtg 1321 tatcctgtcc cctggagag ttatgaggac atccatgta cctccacct ggaagagctt 1381 gctatctgc atgocaggtl caggaggttg ctgtgtagt tggggggcc cagcatgttc 1441 tggcttagt ccaacccctg tctcactgt ggggacagaa ccttatga ccggagccc 1501 atcctgtgc cctgttctat gctaac</p> <p>1 atgggtctcg acgtgcggga cctgaacgg ctgctgccc cgtccctc cctgggtggc 61 ggggggctgt gtccctgoc tgtgagcggc ggggcaggt ggggcctgt gctggacttt 121 gggcccccgg gctctggcc ttacgggtgc ttgggggccc ccggcgccc accggctccg 181 ccggcaaccc cggccggcc gctcactcc ttcaataac agggagcag ctgggggggc 241 ggggagcgc acgagagaga gtgctgagc gcttactg twacitllc cggccagtcc 301 actggcacg ccggagcctg tgcctacgg ccttgggtc cctcctccc cagccaggcg</p>
65	WT1 variant C	<p>1 atgggtctcg acgtgcggga cctgaacgg ctgctgccc cgtccctc cctgggtggc 61 ggggggctgt gtccctgoc tgtgagcggc ggggcaggt ggggcctgt gctggacttt 121 gggcccccgg gctctggcc ttacgggtgc ttgggggccc ccggcgccc accggctccg 181 ccggcaaccc cggccggcc gctcactcc ttcaataac agggagcag ctgggggggc 241 ggggagcgc acgagagaga gtgctgagc gcttactg twacitllc cggccagtcc 301 actggcacg ccggagcctg tgcctacgg ccttgggtc cctcctccc cagccaggcg</p>

		<p>361 tcatcgggc aggcaggat gttctctacc gcgcctacc tgcctagcty cctcgagagc 421 cagcccgcla tlcgcaatca gggttacagc acgggtcacct tcgacgggac gccagcttac 481 qgtcacacgc cctcgacaca tgcggcgagc ttcaccaacc atctattcaa gcatgaggat 541 ccaatgggccc agcagggtc gctgggtgag cagcaytact cgglyccycc cccggtctat 601 ggtcgccaca cccacacga cagctgcacc ggcagccagg ctttgcctgt gaggacgccc 661 tacagcagtg caatttata ccaatgaca tcccagcttg aatgcalyac clggaalacg 721 atgaactta9 gagccacctt aaaggggcac agcacagggt acgagagcga taaccacaca 781 acgcccattcc tctcgggagc ccaatcaga atcacacgc acgggtgtctt cagaggcatt 841 caggatctgc gacgtgtgccc tgggtgtgac ccgactcttg taoggtcycg alctgagacc 901 agtgayaaac gcccltcat gtgtgttac ccaggctgca ataatagata ttttaagctg 961 tcccacttac agatgcacag caggagcac actggtgaga aaccatacca gttgacttc 1021 aaggactgtg aacgaaggtt ttctcgttca gaccagctca aaagacacca aaggagacat 1081 acaggtgtga aaccattcca gtgaaact tgcagcgaa agttctccg glocgacac 1141 ctgaagaccc acacagagac tcatacaggt aaacaagtg aaaaacctt cagctgtcgg 1201 tggccaggtt gtcagaaaaa gttgcccgg tcagatgaat tagtccgcca tcacaacatg 1261 catcagagaa acatgaccaa atccagctg gcgctt</p>
66	p53	<p>atggaggagc cgcagtcaga tctagggc gagccctc tgagtoagga aacattttca 61 gacctatgga aactacttcc tgaaaaaac gttctgtccc ccttccctc ccaagcaatg 121 gatgatttga tctgtccc ggcgatatt gaacatggt taactgaaga cccaggtcca 181 gatgaagctc cagaatgcc agagggtgct cccggcgtgg cccctgcacc agcagctcct 241 acaucggcgg ccccyacac agcccctcc tggcccctgt catctctgt ccttccsag 301 aaaacctacc agggcagcta cggtttccgt ctgggtctt tgcattctgg gacagccaa9 361 tctgtgactt gcagctact cctgtccctc aacaagatgt tttgcaact ggcgaangcc 421 tgcctgtgc agctgtgggt tgatttcaca ccccgcccy gcaecyccgt ccggtccatg 481 gccatctaca agcagtcaca gcacatgagc gaggttgtga ggcgtgccc ccaocatgag 541 cgtgtgtcag atagcagatgg lctggccctt culcagatc llatcagat ggaaggaaat 601 ttgcgtgtgg agtatttga tgacagaaac actttccgac atagtgtggt ggtgccctat 661 gagccgcttg aggttggctc tgactgtacc accatccact aaacacat gttcaacagt 721 tccctgcattg gcggcatgaa ccggaggccc atccaccca tcatcacact ggaagactcc 781 agtggtatc tactgggagc gaacagcttt gaggtgcgtg ttrgtgctg tcttgggaga 841 gaccgggcga cagaggaaga gaatctccgc aagaaggcgt agctcacca cgaactgccc 901 ccngggagca ctaagcyagc actgcccac aacacagct cctctccca gccaaagaag 961 aacccactgg atggagaata tttaacctt cagatccctg ggcgtgagc9 cttcgagatg 1021 ttccgagagc tgaatgagc ct-ggaaactc aaggatgccc aggtgggaa ggaaccaggg 1081 ggaagcaggg ctactccag ccactgaag tccaaaazg gtcagctctac ctcccgccat 1141 aaaaactca tgttcaagac agaagggctt gactcagac</p>

Fig. 9

SFQ ID No	Type	Name	Sequence
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16	MHC		GSYSQAASSDSAQGSDVSLTACKV
17	MHC	HLA-B	PSSQSTVPIVGIAGLVAVLVVIGAVVAAMCRRKSSGGKGGYSQAACSDSAQGSDVSLTA
18	MHC		GSYSQAACSDSAQGSDVSLTA
19	MHC	HLA-C	PSSQPTPIVGIAGLVAVLVAVLAVLGMVAVVMCRRKSSGGRGGSCQAASSNSAQGSDSLTACKA
20	MHC		SAQGSDESITACKA
21	MHC	HLA-E	PASQPTPIVGIAGLVLLGSVVGAVVAAMWRRKSSGGKGGYSKAENWSDSAQGSSESHSL
22	MHC		GSYSKAENWSDSAQGSSESHSL
23	MHC	HLA-F	QSPQPTPIVGIAGLVAVLVAVLVAVVAVVAAMWRRKSSDRNREGSYQAATVDSAQGSGVSLTANKV
24	MHC		RNRGSYQAATVDSAQGSGVSLTANKV
25	MHC	HLA-Dra	VVCALGLTVGVGGIIGTIFIKGLRKSNAERRGPL
26	MHC		RKSNAERRGPL
27	MHC	HLA-DRb	MLSGVGGLVGLLFLAGLVIFRNQKHSGLQPRGELS
28	MHC		GHSGLQPRGELS
29	MHC	HLA-Dqa	VVCALGLSVGEMGIVGVTVFLIQGLRSVGASRHQGPL
30	MHC		VGASRHQGPL
31	MHC	HLA-DQb	MLSGIGGFLGLIFLGLGLIIHHRORGLLH
32	MHC		RSQKGLLH
33	MHC	HLA-DPa	VLCALGLVGVGVGVTVFLIKSLRSGHDPRAQGTI
34	MHC		RSQKGLLH
35	MHC	HLA-DPb	TLTGAGGFLGLICGVGIFMERDRSKKVGQSGA
36	MHC		SKKVGQSGA
37	MHC	CD1a	FIILAVTVPLLLILGLALNFRKRCFC
38	MHC		RKRCFC
39	MHC	CD1b	IVLAIIVPSLLLLCLALWMMRRSYQNIP
40	MHC		RRRSYQNIP
41	MHC	CD1c	WIALVIVPLVIVLIVLWFKKHCYSQDIL
42	MHC		KKHCYSQDIL

Fig. 10

SEQ ID NO	Type	Name	Sequence
43	SNARE	Cis-golgi SNARE p28	MAAGTSYWE DIRKQARQLE NELDRLVSP SELCTSYSHS STRGRDRY SSDTPIANG SSQDRMPETM AIEIEQLIAR LTGVNDRMAE YTNACVPSL NAALMHTLQR HRDIQDYTH EFHKTANFM AIRRENIMG SVRKDIESYK SSGVNNRRT ELFLKEHDHL RNSRLIEET ISIAMATKEN MTSQRGMLKS IHSKNWYLAN RFPAYNSLIQ RINLERKRD S LILGSGVIGIC V LLLLYAFAH
44	SNARE	VT11b	MGASLTSPGT QEKILRDFDE KQOEANKMLT QMEELHYAP VSEHPMMSK LQDYQKDLAQ FHEARTMPG DRGDMKYGT AVENEHMRNL QSQRAMLLQG TKSLGRATQE TDQIGSEISE ELGNQRQD
45	SNARE	Membrin	MDPLEQQTHK QVHEIQSCMG RLEADKQSV HIVENEIQAS IDQITSRLER LEILSSKEPP NRQNARLRV DQLKYDVQHL QTALRNFEQR RHAREQQFRQ REELISRTFT TNDSDTTIPM DESLOFNSSL QKVHNGMDL IIDGHNLDG IRTQHTAKG TQKTLIDIAN MIGLSNTVMR LIEKRAFQDK YFMIGGMLLT GVVMFLVVQY IT
46	SNARE	Pallidin	MSVPGSPD GALTRPPYCL EAGEPTGELS DTSPUEGLIE DLTIEDKAVE QLAEGLLSHY LPDLQSKQA LQELTONQVV LLDITLEQEIS KEKECHSMLD INALEFAEKH YHAKIVNIRK EMMLHKEKTS KIKKRAKLO QKROKEELER EQOREKEFER EKQLTARPAK RM
47	SNARE	Syntaxin-5	MSCRDRTOEF LSACKSLQTR QNGIQNKPA LRAVRQRSEF TLMAKRIGKD LSNTFAKLEK LTLAKRKSIL FDKAVEIEE LTYIIKQPIN SLNKQIAQLQ DFVRAKGSQS GRHLQTHSNT IYVSLQSKLA SMSNDEKSVL EVRTENLKQQ RSRREQFSRA PVSALPLAPN HLGGAVALG AESHASKDA IDMDSRISQ QLOLIDEQDS YIQSRADTMQ NIESITIVELG SIFQQLAHMV KEQEETIQRI DENVIGAQLD VEAHSEILK YFQSVTSNRW LMVKIEFLILI VFFIEVVEL A
48	SNARE	Syntaxin-6	MSMEDPFTVV KGEVQKAVNT AQGLFORWTE LLODPSTATR EEIDWTTNEL RNNLRSEWD LELDDETISI VEANPRKENL DATELSIRKA FITSTPQVVR DMKDQMSSTSS VOALAEKKNR QALLGDSGSQ NWSTGTIDKY GRLDREIQRA NSHFIEEQQA QQQLIVEQQD EQLEIVSGSI GVKKNMSQRI GGELEEQAVM LEDFSHELES TQSRLDNVMK KLAIVSHMNTS DRRQWCAIAI LEAVLLVYLI LFLVL
49	SNARE	Syntaxin-7	MSYTPGVGGD PAQLACRIS NIQKITQCSV EIQTINQLG TPQDSPELRQ QLQKQQQYTN QIAKETDKYT KEFGSLPTTP SQORQKIQK DRJVAFTTS LTNEQKVQRQ AEREKEFVA RVPRASSVSG SPEDSSKER NIVNESQTO PQVQVQDEEI TEDDLRLIHE RESSTRQLEA DIMDINEIFK DLGMMIHEQG DVIDS-EANV ENAEVHVQQA NOQLSRAADY QRKSRKTLCI IILILVIGVA IISLIWGLN H

50	SNARE	Syntaxin-8	MAPDPWSTY DSTCQIAQEI AEKIQORNOY ERKGEKAPKL FVTIRALLQN LREKIALLKD ILLRAVSTHQ ITOLEGGORRQ NLLDDEVTR ELLLASTKNE GAEPDLIRSS IMSEEAKEGA PNPWLEEEPE ETRGLGFDEI RQOQKLIQS QDAGLQALSS IISRQKQMGQ EIGNELEQON EIIDDLANLV ENTDEKLRNE TRRVNMVDER SASCGMIWY LLLVAIVVV AVWFTN MSLEDPFV RGEVQKAVNT ARGLYQRWCE LLOBSAAVGR EELDWTINEL RNLRSIEWD LEDLEETIGI VEANPGKPAQ QKSPSDDLDA SAVSATSRYI EEOQATQOLI MDEQDQOLEM VSGSIQVLKH MSGRVGEELD EQGIMLDAFA QENDHTQSRM DGVLRKLAKV SEMTSDDRQW CAIAVLGVVL LVLILLFSL MSLEDPFV RGEVQKAVNT ARGLYQRWCE LLOBSAAVGR EELDWTINEL RNLRSIEWD LEDLEETIGI VEANPGKPKL PAGDLQERKV FVERNREAVQ EMKDHMVSTP AVAFLENNR EILAGKPAQ KSPSDDLDA AVSATSRYIE EEOQATQOLIM DEODQOLEWV SSGIQLVKHM SGRVGEELDE QGIMLDAFAQ EMDHTQSRMD GVLRLAKVS HMTSDRRQWC AIAVLVGVLL LVLILLFSL MKORLAELLD LSKQYDQQFP DGDDEFDSPH EDIVFETDHI LESLYRDIRD IQDENQLLVA DVKRLGKQNA RELTSMRRLS SIXRDTFNSIA KAFRARGEVI HCKLRANKEL SEABAQHG BSAVARISRA QYNALTITFQ RAMHDYNQAE MKORDNCKIR IQRQLEIMGK EVSGDQIEM FEQGRNDVFS ENLLADVGR GPPTTSRAA TANCACAWRAA IRDVHELEFLQ MAVLVEKQAD TINVIELNVQ KVDYTGQAK AQVRKAVQYE EKNPCTILCC FCCPCLX MSYGPEDMYR NPGPSGPQLR DFESSIIQCS GNIQRISQAT AQIKNLMSQL GTKQDSSKLQ ENLQLOHST NOLAKETNEL IKELGSLFLP LSTSEQRQQR IQKERLHNDP SAALNNFQAV QRVSEKEKE SIARARAGSR LSAREERQEE QLVSEDSHEE WNQMSQDEE VALTEQDLEL IKERETAIRQ LEADILDVNO IFKDLAMMIH DQGLDIDSLE ANVESSEVHV ERATEQLQRA AYQKKKRRK MCILVLVLSV ILLILGLIIV IVYTK MSEDEEKVKL RLEPAIQKE IKIVIPITNLE RLRKHQINIE KYQRCRLWDK LHEEHINAGR TVQOLRSNIR ETEKLCIKVR KDDLVLKRM IDPVKEEASA ATAETQLHL ESVEELKKQF NDEETLLQPP ITRSTVGGCA FHTTEAEASS QSLTQIYALP EIPQDQNAE SRETLEADLI EISQVITDPS ILVNSQQQFKJ DSIADHVNSA AVNVEEGTKN LGKAAKYKLA ALPVAGALLG GMVGGPIGLL ACFKVAGIAA ALGGGVLTGT GGLIQKKQ KMEKLTSSC POLPSQTDKK CS
51	SNARE	Syntaxin-10	
52	SNARE	SYNTAXIN-10a	
53	SNARE	Syntaxin-11	
54	SNARE	Syntaxin-12	
55		Syntaxin-17	
56	SNARE	VAMP-2	MSATRAVAPP AAPAGEGPP APPNLTNSR RLQQTQAVD EVVDIMRVN DVLERDQKL SELDLDRADAL QAGASQETS AAKLRKYWM KNLKMTILG VICATILIII IVYESS
57	SNARE	VAMP-3	MSGPTAATG SNRLQOTQN QVDEVVDIMR VVVDKVLERD QKLSELDRA DALQAGASQF ETSARKLRK YWKNCKGWA IGITVLVIFI ILLIVVVVSS

58	SNARE	VAMP-4	MPPKFRHLN DDDVTSVKS ERRNLEDD S DEEDFFLRG PSCPRFGERN DKIKHVQNV DEVIDMPEN ITKVIERGER LDFLQDKSES LSDNATAFEN RSKQLRRQMW WRGCKIKAIM ALVAALLLV IILIVMKYR T
59	SNARE	VAMP-7	MAILFAVAR GTTIAKHAH CCGNFLEVTE OILAKIPSEN NKITYSHGNY L'IVICQDRI VYICITDDDF ERSRAFENLN EIKKRFQTTY GSRAQTALPY AMNSEFSSYL AQOLKHSEN KGLDKVNETQ AQVDELKGIM VNTDLVAQR GERLELLIDK TENLVDSSVT EKTYSRLAR AMCMNKILIT IILIVSIVE IYIIVSPICG GETWPCVKK
60	SNARE	VAMP8	MEEASEGGN DRRVLOSEV EGVKNIMTON VERLIARGEN LEHLRNKTED LEATSEHFKT TSQKVARKFW WKNVMIVLI CVIVFIILF IVLEATGAFS
61	SNARE	VT11-a-beta	MSSDFEGYEQ DFAVLTAET SKIARVRLP PDEKKQMVAN VFQOLEEAKE LLEQMDLEVYR EIPPOSRGMY SNRMSYKOE MGKLTDFKR SRLAYSDEVY NELGDDGNS SENQRAHLLD NTERLERSR RLEAGLOIAY ETEQIGQEML ENLSHDREKI QRAERLRET DANIGKSSRI LTCMLRRGCS VKKQCHLSLA PKA
62	SNARE	XP350893	MRDLPLDITA CRKNDGDIV VVEKDHFM DFFHQVEEIR NSIDKITQYV EEVKNNHSLI LSAPNPRGKI KEELEDINKE IKKTANKIQA KLKALEQSFQ QDESGNRTSV DLRIERTQHS VLSRKFEVEM AEYNERQTLF RERSRGRIQR OLEITGRIT DDELEPMLES GKPSIFTSOI TSDSQITROA LNEIESRHKD INKLETSIRE IHMEMDMAM FVETOGE MIN NIERNVMNAT DYVHAKET KKAIKYQSKA RRVSLASKN
63	SNARE	LIP5	QMAALAPLP LPAQFKSTQH HIRTAQEHDK RDPVVAYYCR LYAQGTGMI OSKTEPCRKE ISKLANDQLEA LKQOLGNEA ITQETVGCAX LENYAIKMET YADNEDRAGR FHKNMKSFY TASLLIDVIT VFGELTDENV KURKVARWKA TYIHNCLKEW GDSRRPCWE LKRTMILKGM KMLEQPLCPL SOLSHHHLQL MTQQHAIROL YWNTDSSGCT RSS

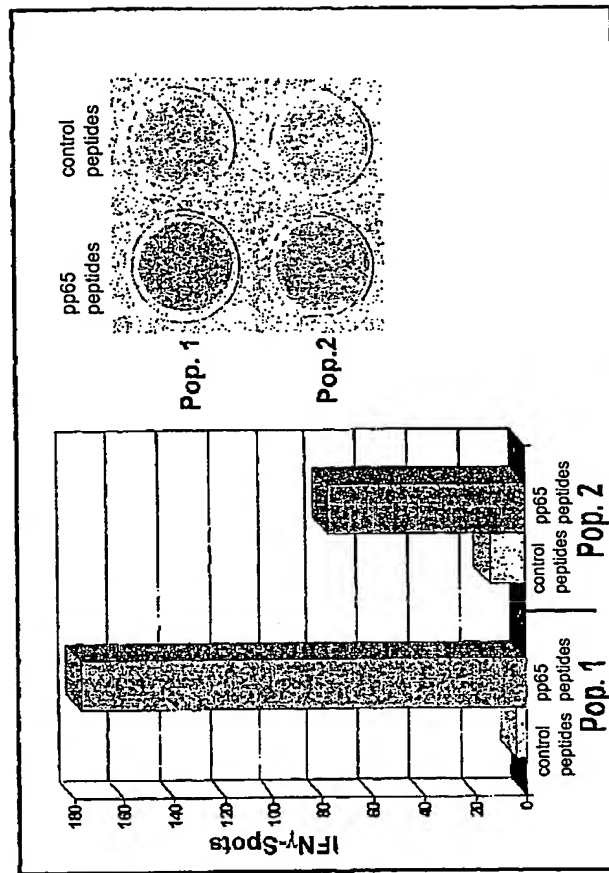


Fig. 11

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